

Electro-Optical Characteristics :

$I_F@20mA, T_a25^{\circ}C$

Code for Parts	Lighting Color	Material	$V_F(V)$		$\lambda (nm)$			$I_v^*(mcd)$
			typ.	max.	λ_D	λ_P	$\Delta \lambda$	typ.
MLM-110PG	Pure Green	GaP	2.2	2.6	563	557	24	4.0
MLM-110UG	Super Green	GaP	2.2	2.6	567	565	24	11
MLM-110G	Green	GaP	2.2	2.6	567	565	26	8.0
MLM-110YG	Yellow Green	GaP	2.2	2.6	572	570	30	13
MLM-110Y	Yellow	GaAsP	2.1	2.6	590	589	40	8.0
MLM-110D	Amber	GaAsP	2.1	2.6	606	610	40	7.0
MLM-110SD	Super Bright Orange	GaAsP	2.1	2.6	632	642	40	13
MLM-110UR	Super Bright Red	AlGaAs	1.9	2.6	643	660	20	20
MLM-110HR	High Bright Red	AlGaAs	1.9	2.6	643	660	20	30
MLM-110R	Red	GaP	2.2	2.6	643	700	100	2.7

*NIST standards

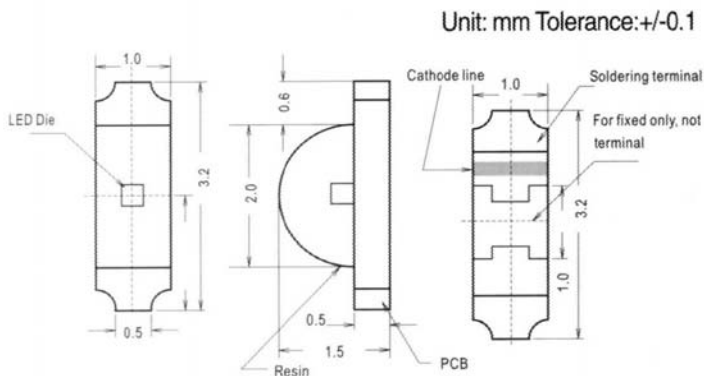
Absolute Maximum Ratings :

$(T_a=25^{\circ}C)$

Series	$P_d(mW)$	$I_F(mA)$	$I_{FP}(mA)$	$V_R(V)$	$T_{OP}(^{\circ}C)$	$T_{ST}(^{\circ}C)$
MLM-110 Series	65	25	100**	5	-30 to +80	-40 to +85
MLM-110 UR/HR	78	30				

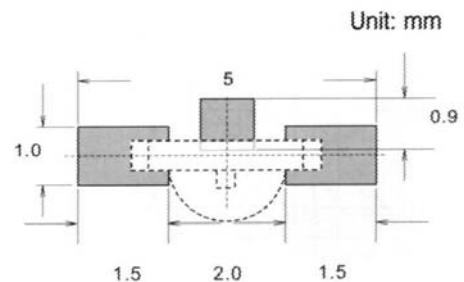
**Condition for I_{FP} is pulse of 1/10 duty and 0.1msec width

Package Outline Dimensions :



1. Soldering terminal may shift in x, y direction.
2. Polarity referring onto the cathode line is reversed on the UR / HR.

• Recommended Soldering Pattern for Reflow Soldering



To avoid LED from rotation after assembly (reflow), soldering on the fixing pad is suggested



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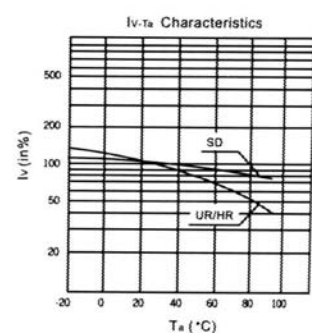
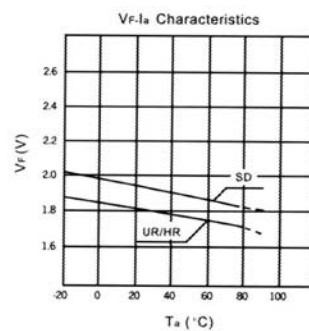
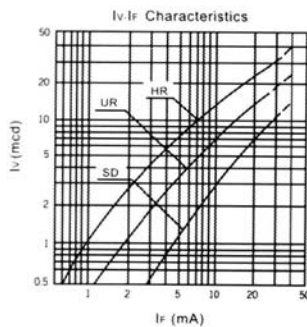
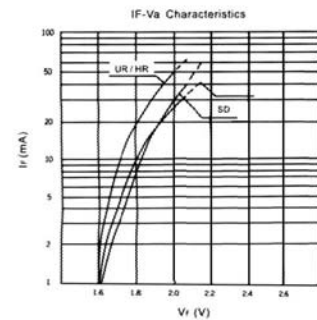
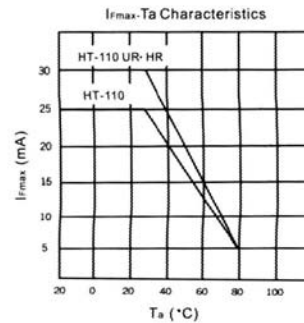
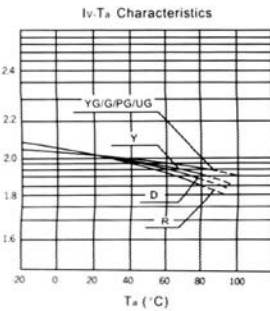
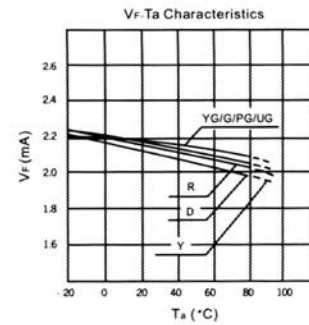
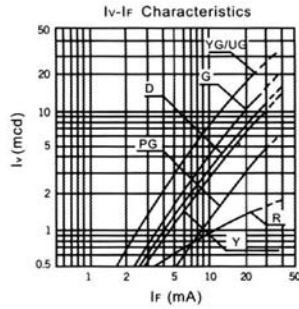
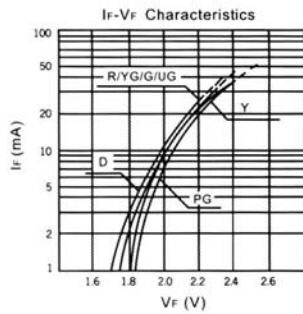
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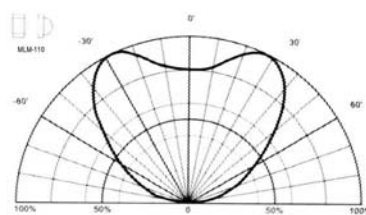
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MLM-110 Series Visible LED Conventional Brightness- GaP, GaAsP and AlGaAs

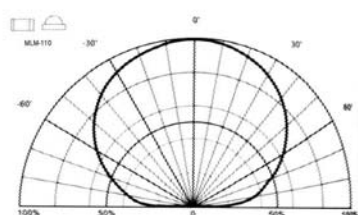
Characteristics of MLM-110 Series :



Directive Characteristics



Directive Characteristics



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